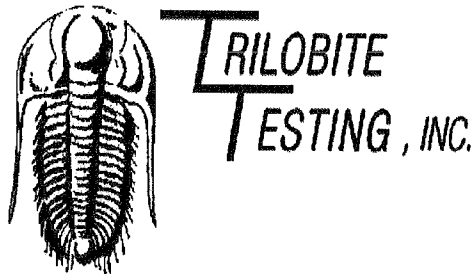


15-135-25037

1-17s-22w

Ind



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co.**

PO Box 372
Hays, KS 67601

ATTN: Marc Downing

1-17s-22w Ness KS

Barber "B" 1-1

Start Date: 2010.03.01 @ 19:45:13

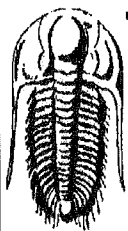
End Date: 2010.03.02 @ 02:54:37

Job Ticket #: 38110 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co.

PO Box 372
Hays, KS 67601

ATTN: Marc Dow ning

Barber "B" 1-1

1-17s-22w Ness KS

Job Ticket: 38110

DST#: 1

Test Start: 2010.03.01 @ 19:45:13

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:51:38

Time Test Ended: 02:54:37

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 41

Interval: **4271.00 ft (KB) To 4334.00 ft (KB) (TVD)**

Total Depth: 4334.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2338.00 ft (KB)

2330.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8371

Outside

Press@RunDepth: 89.42 psig @ 4288.00 ft (KB)

Start Date: 2010.03.01

End Date:

2010.03.02

Start Time: 19:45:13

End Time:

02:54:37

Capacity: 8000.00 psig

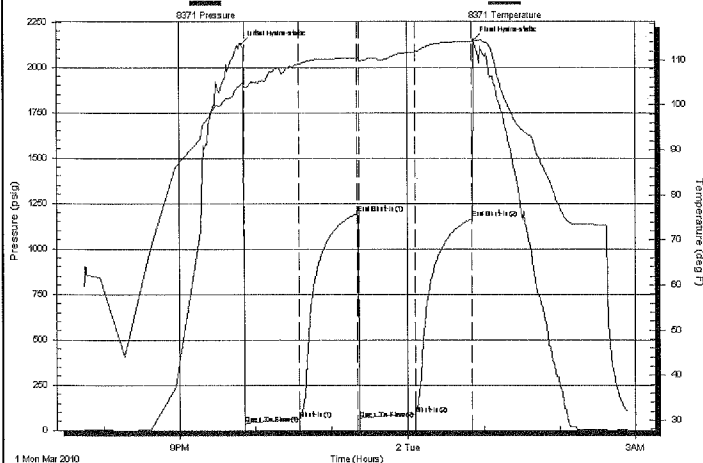
Last Calib.: 2010.03.02

Time On Btm: 2010.03.01 @ 21:49:38

Time Off Btm: 2010.03.02 @ 00:52:07

TEST COMMENT: IFP - BOB 35 min.
ISI - no blow back
FFP - BOB 34bmin.
FSI - no blow back

Pressure vs. Time



PRESSURE SUMMARY

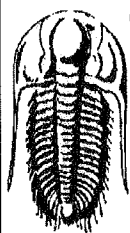
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2122.95	104.69	Initial Hydro-static
2	34.77	103.86	Open To Flow (1)
46	63.74	109.13	Shut-In(1)
91	1196.47	110.51	End Shut-In(1)
92	64.96	109.88	Open To Flow (2)
136	89.42	111.72	Shut-In(2)
181	1166.91	114.10	End Shut-In(2)
183	2148.06	114.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
153.00	GHOCM 15%G, 40%O, 45%M	1.86
2.00	FREE OIL 95%O, 5%M	0.03
0.00	120' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co.

Barber "B" 1-1

PO Box 372
Hays, KS 67601

1-17s-22w Ness KS

Job Ticket: 38110

DST#: 1

ATTN: Marc Dow ning

Test Start: 2010.03.01 @ 19:45:13

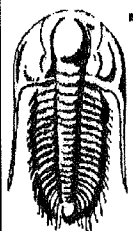
Tool Information

Drill Pipe:	Length: 4243.00 ft	Diameter: 3.80 inches	Volume: 59.52 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 59.67 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4271.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	63.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4249.00	
Hydraulic tool	5.00			4254.00	
Jars	5.00			4259.00	
Safety Joint	2.00			4261.00	
Packer	5.00			4266.00	27.00 Bottom Of Top Packer
Packer	5.00			4271.00	
Stubb	1.00			4272.00	
Perforations	15.00			4287.00	
Change Over Sub	1.00			4288.00	
Recorder	0.00	8018	Inside	4288.00	
Recorder	0.00	8371	Outside	4288.00	
Blank Spacing	32.00			4320.00	
Change Over Sub	1.00			4321.00	
Perforations	10.00			4331.00	
Bullnose	3.00			4334.00	63.00 Bottom Packers & Anchor

Total Tool Length: 90.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co.

Barber "B" 1-1

PO Box 372
Hays, KS 67601

1-17s-22w Ness KS

Job Ticket: 38110

DST#: 1

ATTN: Marc Dow ning

Test Start: 2010.03.01 @ 19:45:13

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

43 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.47 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
153.00	GHOCM 15%G, 40%O, 45%M	1.864
2.00	FREE OIL 95%O, 5%M	0.028
0.00	120' GIP	0.000

Total Length: 155.00 ft

Total Volume: 1.892 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

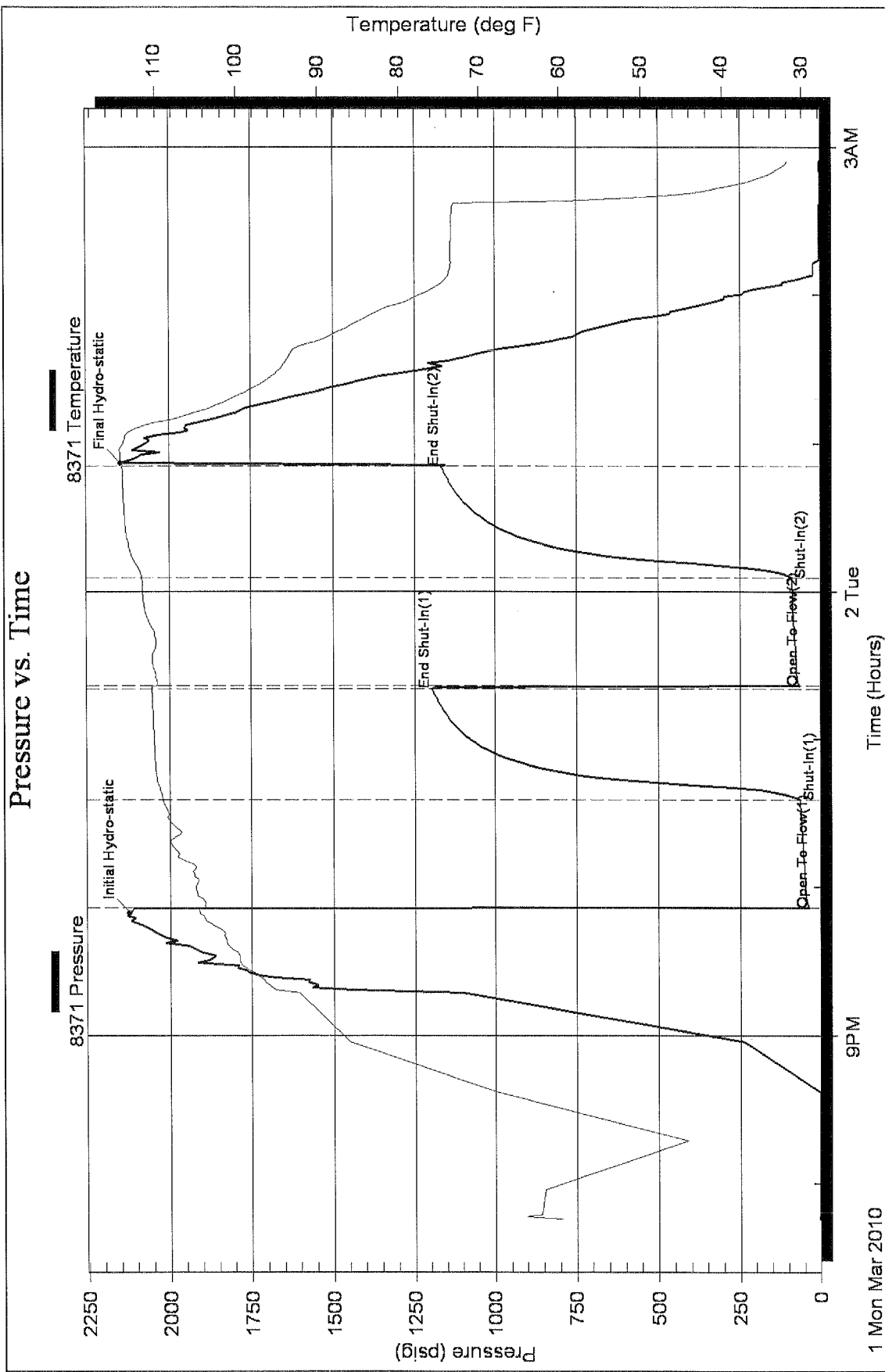
Serial #:

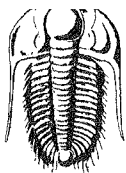
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 05 2010

Test Ticket

NO. 38110

Well Name & No. Barber "B" 1-1 Test No. 1 Date 3-1-10
Company DNOC Elevation 2338 KB 2330 GL
Address PO Box 372 Hays, K 67601
Co. Rep / Geo. Marc Downing Rig Disc 3
Location: Sec. 1 Twp. 17S Rge. 22W Co. Neos State K

Interval Tested 4271-4334 Zone Tested Miss
Anchor Length 63 Drill Pipe Run 4243 Mud Wt. 9.4
Top Packer Depth 4266 Drill Collars Run 31 Vis 50
Bottom Packer Depth 4271 Wt. Pipe Run — WL 8.5
Total Depth 4334 Chlorides 4000 ppm System LCM

Blow Description FFP- BOB 35 min
ISI- no blow back
FFP- BOB 34 min
FSI- no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Free Oil</u>		<u>95</u>		<u>5</u>
<u>153</u>	<u>GHOOM</u>	<u>15</u>	<u>40</u>		<u>45</u>
<u>120</u>	<u>GIP</u>				

Rec Total 155 BHT 114 Gravity 43 API RW @ — ° F Chlorides — ppm

(A) Initial Hydrostatic 2123 ☒ Test 1150
(B) First Initial Flow 35 ☒ Jars 250
(C) First Final Flow 64 ☒ Safety Joint 75
(D) Initial Shut-In 1197 ☐ Circ Sub
(E) Second Initial Flow 65 ☐ Hourly Standby
(F) Second Final Flow 89 ☒ Mileage 84 RT
(G) Final Shut-In 1167 ☐ Sampler
(H) Final Hydrostatic 2098 ☐ Straddle

T-On Location 1838
T-Started 1945
T-Open 2150
T-Pulled 0050
T-Out 0254

Comments

Initial Open 45
Initial Shut-In 45
Final Flow 45
Final Shut-In 45

☐ Shale Packer
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
Sub Total 1589

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
Sub Total 0
Total 1589

Approved By

Our Representative

Brian Farbank (HAB)

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